



**PATENT**  
Attorney Docket No. 213338

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Murakami et al.

Application No. 09/941,972

Filed: August 29, 2001

For: ADHESIVE COMPOSITION FOR  
SKIN AND ADHESIVE TAPE OR  
SHEET FOR SKIN COMPRISING  
THE COMPOSITION

Art Unit: 1713

Examiner: J. M. Reddick

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**AMENDMENTS TO THE CLAIMS MADE IN  
RESPONSE TO OFFICE ACTION DATED APRIL 2, 2002**

17. (Canceled)
18. (Canceled)
19. (Canceled)
20. (Canceled)
21. (Canceled)
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23. (Canceled)
24. (Canceled)
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For: **ADHESIVE COMPOSITION FOR  
SKIN AND ADHESIVE TAPE OR  
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THE COMPOSITION**

**PENDING CLAIMS AFTER AMENDMENTS  
MADE IN RESPONSE TO OFFICE ACTION DATED APRIL 2, 2002**

1. An adhesive composition for application to skin, which comprises  
an acrylic copolymer (100 parts by weight) obtained from a monomer mixture  
comprising a (meth)acrylic acid alkyl ester monomer (40-80 wt%), an alkoxy group-  
containing ethylenically unsaturated monomer (10-60 wt%) and a carboxy group-  
containing ethylenically unsaturated monomer (1-10 wt%), and  
a carboxylic acid ester (20-120 parts by weight), which is liquid or paste at room  
temperature,  
wherein the acrylic copolymer has a gel fraction of 30-80 wt%.
2. The adhesive composition for application to skin according to claim 1, wherein  
the carboxylic acid ester is a glycerine ester of saturated fatty acid.
3. The adhesive composition for application to skin according to claim 2, wherein  
the saturated fatty acid has 8 to 10 carbon atoms.
4. The adhesive composition for application to skin according to claim 3, wherein  
the saturated fatty acid having 8 to 10 carbon atoms is selected from the group consisting of a  
caprylic acid, a capric acid and a 2-ethylhexanoic acid.

5. The adhesive composition for application to skin according to claim 2, wherein the glycerine ester is a triglycerine ester.

6. The adhesive composition for application to skin according to claim 2, wherein the glycerine ester of saturated fatty acid is selected from the group consisting of triglyceryl caprylate, triglyceryl caprate and triglyceryl 2-ethylhexanoate.

7. The adhesive composition for application to skin according to claim 1, wherein the adhesive layer is chemically crosslinked.

8. The adhesive composition for application to skin according to claim 7, wherein the chemical crosslinking is performed using an organic compound selected from the group consisting of an organic peroxide, an isocyanate compound, an epoxy compound and a metal chelate compound.

9. An adhesive composition for application to skin comprising  
an acrylic copolymer (100 parts by weight) obtained from a monomer mixture comprising a (meth)acrylic acid alkyl ester monomer (40-80 wt%), an alkoxy group-containing ethylenically unsaturated monomer (10-60 wt%) and a carboxy group-containing ethylenically unsaturated monomer (1-10 wt%) and  
a carboxylic acid ester (20-120 parts by weight), which is liquid or paste at room temperature,  
wherein the acrylic copolymer has a gel fraction of 20-60 wt%.

10. The adhesive composition for application to skin according to claim 9, wherein the carboxylic acid ester is a glycerine ester of saturated fatty acid.

11. The adhesive composition for application to skin according to claim 10, wherein the saturated fatty acid has 8 to 10 carbon atoms.

12. The adhesive composition for application to skin according to claim 11, wherein the saturated fatty acid having 8 to 10 carbon atoms is selected from the group consisting of a caprylic acid, a capric acid and a 2-ethylhexanoic acid.

13. The adhesive composition for application to skin according to claim 10, wherein the glycerine ester is a triglycerine ester.

14. The adhesive composition for application to skin according to claim 10, wherein the glycerine ester of saturated fatty acid is selected from the group consisting of triglyceryl caprylate, triglyceryl caprate and triglyceryl 2-ethylhexanoate.

15. The adhesive composition for application to skin according to claim 9, wherein the adhesive layer is chemically crosslinked.

16. The adhesive composition for application to skin according to claim 15, wherein the chemical crosslinking is performed using an organic compound selected from the group consisting of an organic peroxide, an isocyanate compound, an epoxy compound and a metal chelate compound.